

[Drawings]

Fig. 1 -- HEAT PRODUCTION Q [kJ]

CRANK ANGLE (deg)

Fig. 3 --

5 S10: SETTING INTAKE AIR QUANTITY AND FUEL INJECTION QUANTITY
S12: THROTTLE CONTROL, FUEL INJECTION
S14: OBTAINING P (θ_1)
S16: CALCULATING P (θ_1) V^k (θ_1)
10 S18: OBTAINING P (θ_2)
S20: CALCULATING P (θ_2) V^k (θ_2)
S26: COUNTER INCREMENT
S28: COUNT NUMBER > THRESHOLD VALUE ?
S30: CORRECTING AT LEAST ANY OF OPENING OF THROTTLE, FUEL
15 INJECTION QUANTITY, VALVE TIMING, and EGR RATE
S32: COUNTER RESET
S36: COMPLETE MISFIRE ASSUMPTION, WARNING DISPLAY

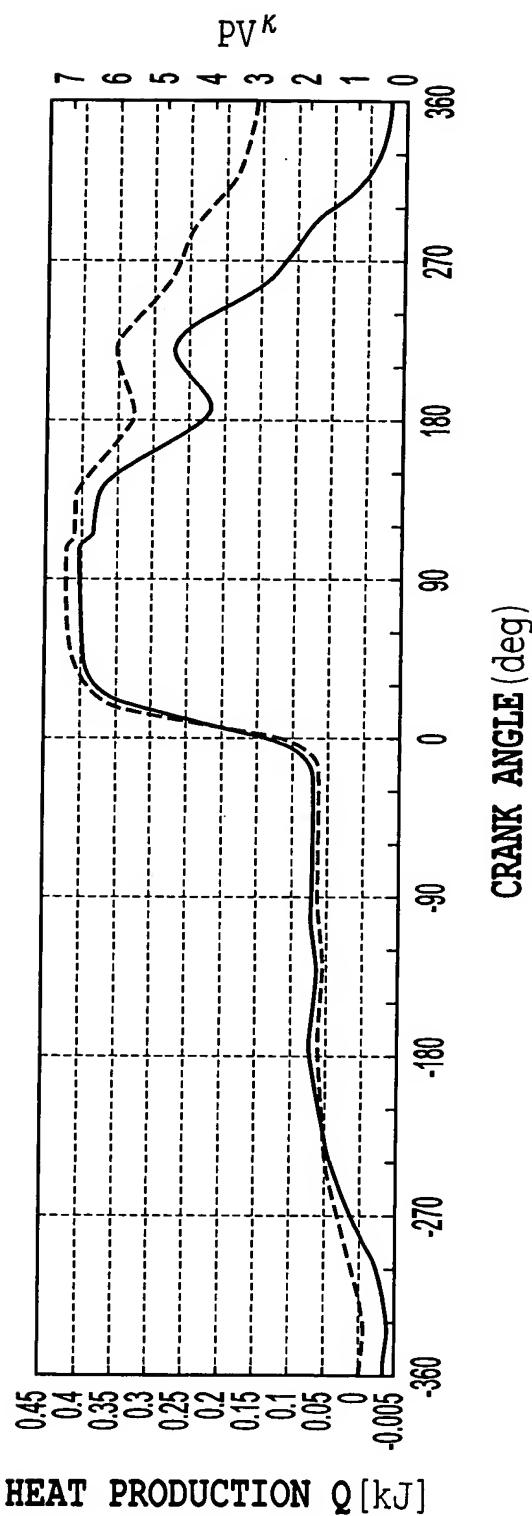


FIG. 1

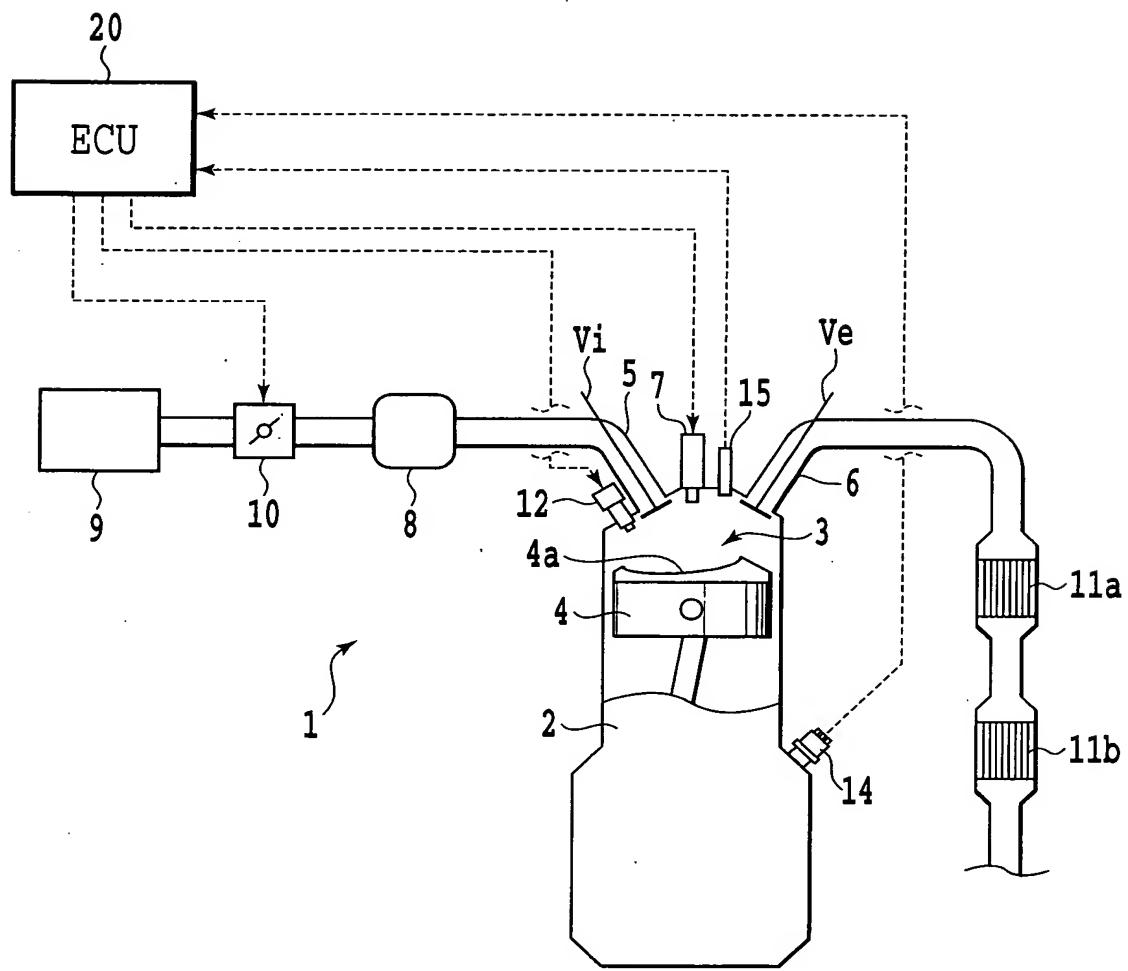


FIG.2

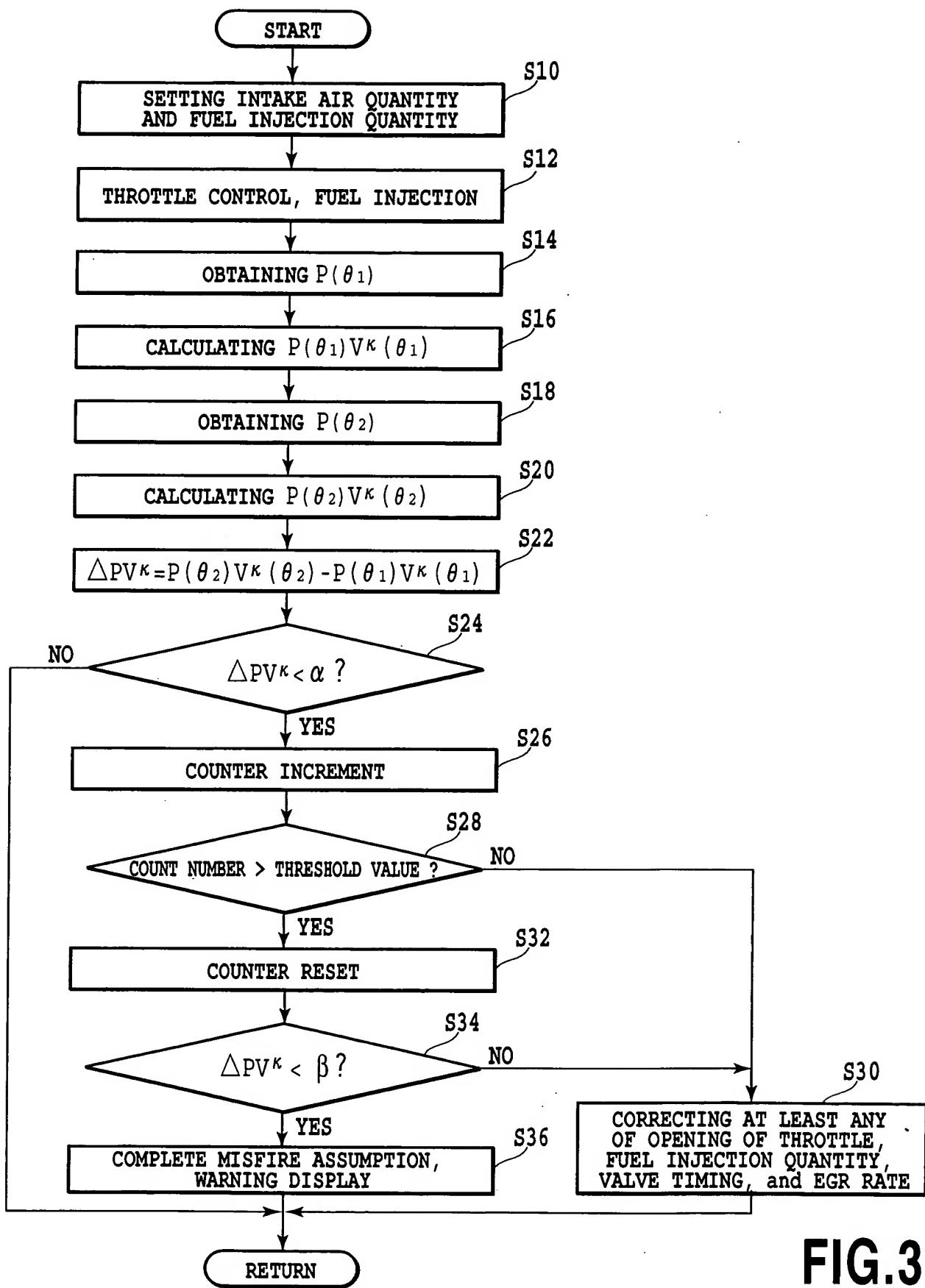


FIG.3